

# Rebecca Stower

*Senior User Researcher & Product Analyst*

I use psychological research methods to design and evaluate products people actually want to use — from social robots in research labs to telecom products at Ericsson.

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<b>01</b>	A VR Framework for Correcting Robot Errors	VR · Robotics · RO-MAN 2023
<b>02</b>	Drone Fail Me Now	Drones · Trust · HRI 2024
<b>03</b>	Robot Travel Agent for Multi-Modal HRI	Social robotics · Multimodal · RO-MAN / IJSR

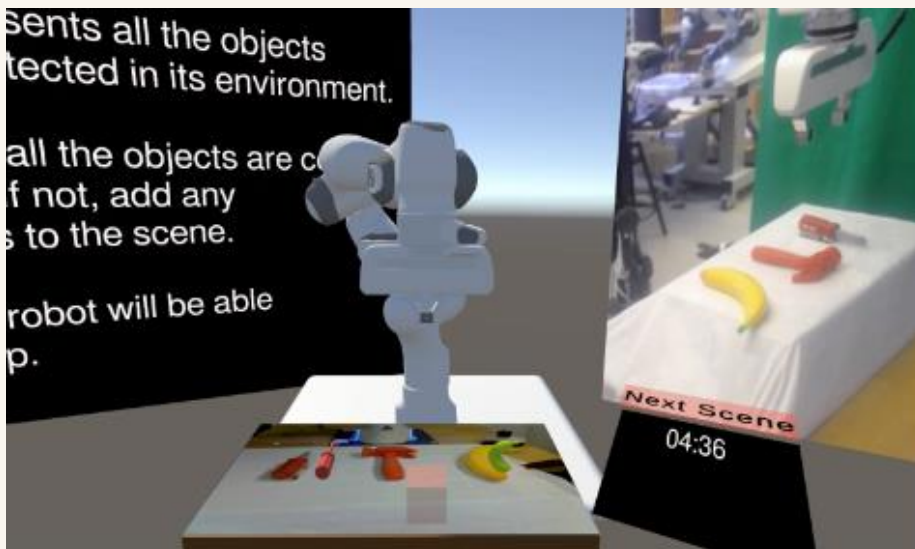
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# 01

VR · ROBOTICS · RO-MAN 2023

## A VR Framework for Correcting Robot Errors

Evaluated the benefits of a VR interface over commercially available technologies for correcting robot perception errors — informing the future design of human-in-the-loop robotics tooling.



### PARTICIPANT EXPERIENCE

#### 01

Robot fails to detect an object in the real-world environment.

#### 02

User adds the missing object(s) via the VR interface.

#### 03

Virtual robot plans a trajectory; user approves or modifies.

#### 04

Real-world robot executes the corrected movement.

### MY CONTRIBUTIONS

Analyse data

Present results

Interdisciplinary collaboration

Supervision

### RELATED PUBLICATIONS

**Wozniak, M. K., Stower, R., Jensfelt, P., & Pereira, A. (2023). *Happily Error After: Framework Development and User Study for Correcting Robot Perception Errors in Virtual Reality*. RO-MAN.**

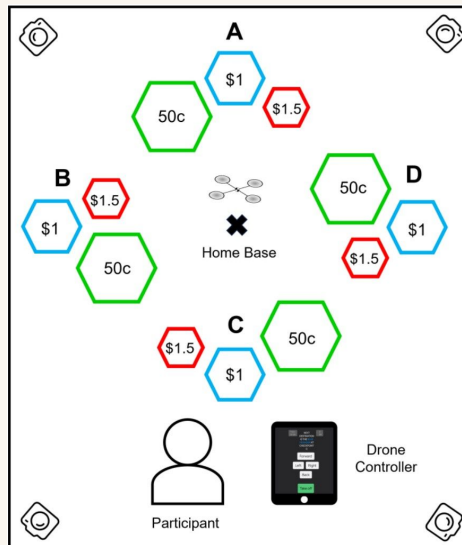
**Wozniak, M. K., Stower, R., Jensfelt, P., & Pereira, A. (2023). *What you see is (not) what you get: A VR Framework for Correcting Robot Errors*. HRI 2023 Late Breaking Reports.**

# 02

DRONES · TRUST · HRI 2024 (HONORABLE MENTION)

## Drone Fail Me Now

A user study measuring the impact of real-world drone failures on trust and risk-taking decisions in a tablet-based navigation game.



### PARTICIPANT EXPERIENCE

**01**  
Participant navigates a drone using a tablet.

**03**  
Participant chooses the next checkpoint (risk-taking).

**02**  
Drone makes an error, displayed on the tablet.

**04**  
Trust in the drone measured via questionnaire.

### MY CONTRIBUTIONS

- Study design
- Analyse data
- Present results
- Supervision

### RELATED PUBLICATIONS

**Rafimxadagan, N., Vafis, M., Leite, I., & Stower, R. (2024). Drone Fail Me Now: How Drone Failures Affect Trust and Risk-Taking Decisions. HRI 2024 Late-Breaking Reports — Honorable Mention for Best LBR.**

## 03

SOCIAL ROBOTICS · MULTIMODAL · RO-MAN / IJSR

# Robot Travel Agent for Multi-Modal HRI

A fully autonomous travel-planning interaction with the Pepper robot (~5–10 minutes), comparing self-reported attitudes against observed behaviour across multimodal cues.



## PARTICIPANT EXPERIENCE

## 01

Greeting, distance calibration, robot offers water.

## 02

Robot asks preferences with backchannelling.

## 03

Robot gives a travel recommendation.

## 04

Closing — wave goodbye.

## MY CONTRIBUTIONS

Mixed-methods analysis

Cross-institutional collaboration

Multimodal behaviour coding

## RELATED PUBLICATIONS

**Stower, R., Tatarian, K., Rudaz, D., Chamoux, M., Chetouani, M., & Kappas, A. (2022). Does what users say match what they do? Comparing self-reported attitudes and behaviours towards a social robot. RO-MAN.**

**Tatarian, K., Stower, R., Rudaz, D., Chamoux, M., Kappas, A., & Chetouani, M. (2022). How does modality matter? Investigating the synthesis and effects of multi-modal robot behavior on social intelligence. IJSR.**

MORE

# Want to see more of my work?

Publications, talks, the full project list, and contact details all live on the website.

WEBSITE

**[rebecca-stower.dev](https://rebecca-stower.dev)**

PUBLICATIONS

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